**Amendments to the Claims:** 

No amendments to the claims are proposed in this Response. This listing of claims will

replace all prior versions, and listings, of claims in the application:

**Listing of Claims:** 

1. (Previously presented) An isolated polypeptide comprising an amino acid sequence encoding

the EGF-like domain of SEQ ID NO:4.

2.-3. (Cancelled)

4. (Previously presented) The polypeptide of claim 1, wherein the polypeptide binds to the

ErbB4 receptor and activates tyrosine phosphorylation of the ErbB4 receptor.

5.-38. (Cancelled)

39. (Previously presented) An isolated polypeptide comprising an EGF-like domain, wherein

the EGF-like domain consists of an amino acid sequence having at least 75% amino acid

sequence identity to SEQ ID NO:4, and wherein the EGF-like domain has the binding

characteristics of NRG3 comprising:

(a) binding to ErbB4 receptor but not to ErbB2 receptor or ErbB3 receptor wherein the

binding to each receptor is in the absence of the other receptors; and

(b) activation of ErbB4 receptor tyrosine phosphorylation.

40. (Withdrawn) A host cell expressing the polypeptide of claim 1.

41. (Withdrawn) The host cell of claim 40, wherein the host cell is selected from the group

consisting of a mammalian cell, a yeast cell, an insect cell, a plant cell, a lower eukaryote, and a

prokaryote.

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- 42. (Withdrawn) A host cell expressing the polypeptide of claim 4.
- 43. (Withdrawn) The host cell of claim 42, wherein the host cell is selected from the group consisting of a mammalian cell, a yeast cell, an insect cell, a plant cell, a lower eukaryote, and a prokaryote.
- 44. (Withdrawn) A host cell expressing the polypeptide of claim 39.
- 45. (Withdrawn) The host cell of claim 44, wherein the host cell is selected from the group consisting of a mammalian cell, a yeast cell, an insect cell, a plant cell, a lower eukaryote, and a prokaryote.